

Water-Data Report 2007

12396500 PEND OREILLE RIVER BELOW BOX CANYON, NEAR IONE, WA

Pend Oreille Basin
Pend Oreille Subbasin

LOCATION.--Lat 48°46'52", long 117°24'55" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.19, T.38 N., R.43 E., Pend Oreille County, WA, Hydrologic Unit 17010216, on left bank 1,000 ft downstream from Box Canyon Dam, 2.8 mi north of Ione, and at mile 34.3.

AUXILIARY GAGE: Lat 48°47'35", long 117°25'13", in NW ¼ SE ¼ sec. 18, T. 38 N., R. 43 E., Pend Oreille County, Hydrologic Unit 17010216, on left bank 1.2 mi downstream from base gage near cable.

DRAINAGE AREA.--24,900 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1933: Drainage area. WDR WA-81-2: 1976.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Mar. 29, 1954, nonrecording gage at site 300 ft upstream at same datum. Mar. 29 to Aug. 25, 1954, nonrecording gage at present site and datum. Since Aug. 20, 1967, auxiliary water-stage recorder 1.2 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair except those below 10,000 ft³/s, which are poor. Flow regulated by Box Canyon Reservoir, 1,000 ft upstream, since June 1955 and by Pend Oreille Lake, Flathead Lake, Hungry Horse Reservoir, and by several smaller reservoirs and powerplants. Numerous diversions upstream from station for irrigation. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--55 years (water years 1953-2007), 26,220 ft³/s, 19,000,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 136,000 ft³/s June 13, 14, 1972; maximum daily elevation, 2,015.44 ft June 5, 7, 1997 (mean of surge), (backwater from Boundary Dam); minimum daily discharge, 82 ft³/s Oct. 5, 1985 (result of regulation).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1948 reached an elevation of 2,018.00 ft, from floodmarks, discharge, 167,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,400 ft³/s, June 9, maximum elevation, 1,998.70 ft, June 8, (backwater from Boundary Dam); minimum discharge, 4,190 ft³/s, Aug. 14, result of regulation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9,690	25,100	18,600	15,700	15,500	17,900	40,600	31,600	33,000	24,600	11,400	8,300
2	9,960	25,400	17,800	15,000	15,300	17,300	40,800	34,300	34,900	23,700	11,800	8,240
3	10,100	25,200	17,900	14,900	14,000	16,100	41,200	39,000	34,700	23,300	11,200	8,200
4	11,200	25,600	19,800	16,800	13,700	15,700	40,800	44,400	34,700	22,500	10,600	8,010
5	13,100	25,900	20,700	17,000	15,400	15,900	38,600	46,400	39,400	23,000	9,120	10,300
6	13,700	26,100	19,600	16,700	14,500	15,700	37,100	46,800	44,900	20,300	8,340	10,400
7	17,400	26,500	17,200	17,900	14,300	18,200	35,900	46,700	53,000	20,000	8,220	11,200
8	24,600	28,400	16,300	17,400	13,500	21,000	34,800	44,800	54,200	20,600	7,980	9,660
9	27,300	29,900	15,600	18,200	13,500	20,800	34,700	41,100	54,500	20,500	7,870	8,470
10	28,600	30,900	15,600	18,600	13,500	21,100	34,500	40,000	54,300	20,300	6,900	9,290
11	28,600	31,000	16,600	19,100	13,900	21,800	34,400	39,800	51,900	20,100	7,180	10,600
12	27,500	31,500	18,700	19,100	14,700	23,000	35,800	39,700	47,800	19,000	6,830	11,800
13	25,300	31,400	22,000	18,500	15,400	25,000	35,300	39,400	41,900	18,100	6,330	11,000
14	25,200	32,200	22,500	17,500	15,700	28,100	34,200	39,700	38,600	17,100	6,700	10,200
15	25,000	32,200	19,800	17,100	15,900	29,900	34,100	43,300	37,600	17,900	7,550	10,200
16	25,000	32,600	19,600	16,600	16,700	31,700	34,000	46,700	37,300	17,100	9,550	10,700
17	26,100	26,800	20,000	14,000	17,300	31,800	34,500	48,000	36,300	16,100	9,030	11,100
18	27,200	23,000	20,000	12,300	19,900	31,800	33,900	48,300	33,200	12,600	9,770	11,900
19	27,400	18,300	18,800	12,200	18,300	32,100	33,700	48,400	32,300	11,000	8,170	12,200
20	28,500	18,100	17,700	12,300	17,800	32,200	31,900	48,800	32,300	11,800	8,780	12,400
21	29,000	22,000	17,500	12,600	18,300	32,100	31,700	49,300	33,100	12,300	8,640	13,300
22	28,400	24,900	16,300	15,900	19,500	32,400	31,100	49,300	32,000	12,000	9,030	12,800
23	28,300	26,000	15,400	17,800	20,000	32,800	31,400	49,000	32,300	12,100	9,250	12,700
24	28,600	25,400	14,800	19,100	21,400	32,600	31,000	48,200	32,800	13,400	9,650	13,200
25	28,800	21,500	14,700	21,200	21,800	32,900	30,900	45,400	33,200	16,200	9,100	12,800
26	28,300	20,000	15,300	21,400	21,800	33,300	31,500	41,700	31,900	16,100	8,050	13,000
27	28,100	20,200	18,700	21,200	21,500	37,000	31,400	40,000	30,900	14,700	9,120	12,900
28	28,400	20,700	19,900	20,700	19,800	42,700	31,000	36,200	25,100	14,600	9,270	13,800
29	28,400	21,100	19,600	19,300	---	43,100	30,600	34,400	23,100	13,900	8,930	13,900
30	27,800	20,500	20,100	17,600	---	41,800	31,200	33,400	23,000	13,000	7,220	13,800
31	25,700	---	18,200	16,300	---	40,800	---	33,700	---	13,000	7,550	---
Total	741,250	768,400	565,300	530,000	472,900	868,600	1,032,600	1,317,800	1,124,200	530,900	269,130	336,370
Mean	23,910	25,610	18,240	17,100	16,890	28,020	34,420	42,510	37,470	17,130	8,682	11,210
Max	29,000	32,600	22,500	21,400	21,800	43,100	41,200	49,300	54,500	24,600	11,800	13,900
Min	9,690	18,100	14,700	12,200	13,500	15,700	30,600	31,600	23,000	11,000	6,330	8,010
Ac-ft	1,470,000	1,524,000	1,121,000	1,051,000	938,000	1,723,000	2,048,000	2,614,000	2,230,000	1,053,000	533,800	667,200

	Calendar Year 2006	Water Year 2007
Total	10,194,850	8,557,450
Mean	27,930	23,450
Max	87,700	54,500
Min	5,210	6,330
Ac-ft	20,220,000	16,970,000

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